

LZ ANSWER 5 OF 33 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text	Citing References
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AN 2001:423747 CAPLUS  
 DN 135:7643  
 TI Preparation of energy-saving additive for heavy oil  
 IN Tang, Lijing  
 PA Peop. Rep. China  
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.  
 CODEN: CNXXEV  
 DT Patent  
 LA Chinese  
 IC ICM C10G031-08  
 CC 51-9 (Fossil Fuels, Derivatives, and Related Products)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1271760	A	20001101	CN 2000-103245	20000320
	CN 1115383	B	20030723		
PRAI	CN 2000-103245		20000320		

AB The additive contains activated carbon 5-8, KMnO4 2-4, agar 5-8, soft soap 16-27, Na lauryl benzene **sulfonate** 3-10, H2O2 5-10, NH4ClO4 5-10, pentaerythritol 6-16, oil fat 10-20, KNO3 5-10 and NaNO3 3-8%. The additive is manufd. by mixing soft soap, oil fat, agar and Na lauryl benzene **sulfonate**, heating to about 40?, stirring, adding other raw materials, heating to 60?, stirring for 15 min, and cooling. The addn. of additive can save energy by 15%.

ST **fuel** additive heavy oil

IT **Fuel** additives

**Fuel** oil

**Fuel** oil additives

(energy-saving additive for heavy oil)

IT Petroleum, processes

RL: PEP (Physical, engineering or chemical process); PROC (Process)  
 (heavy; energy-saving additive for heavy oil)

IT 7440-44-0, Activated carbon, uses

RL: MOA (Modifier or additive use); USES (Uses)  
 (activated; in energy-saving additive for heavy oil)

IT 115-77-5, Pentaerythritol, uses 7631-99-4, Sodium nitrate, uses 7722-64-7, Potassium permanganate 7722-84-1, Hydrogen **peroxide**, uses 7757-79-1, Potassium nitrate, uses 7790-98-9, Ammonium perchlorate 25155-30-0, Sodium lauryl benzene **sulfonate**

RL: MOA (Modifier or additive use); USES (Uses)  
 (in energy-saving additive for heavy oil)